**International Motors, LLC**

# INTERNATIONAL®

## ISA & GS Enveloping Standard

### VERSION:
### ANSI ASC X12
### Represents ISA & GS Pre & Post 4010
### Standard Final

| INTERNATIONAL®<br><br>ISA & GS Enveloping Standard | Document Number:<br>　　　　　　　　PUR-2027 |
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| Written by: | Reviewed/ Approved by: | |
| --- | --- | --- |
| Applications Analyst | EDI Manager | This Document Applies to:<br>All Divisions |

# Envelope Segments

## Functional Group=

## Heading:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|-------------|-----|---------|--------|-------|-------|
| 010 | ISA | Interchange Control Header | M | 1 | | | Must use |
| 020 | GS | Functional Group Header | M | 1 | | | Must use |
| 030 | GE | Functional Group Trailer | M | 1 | | | Must use |
| 040 | IEA | Interchange Control Trailer | M | 1 | | | Must use |

## Trading Partner:

This guide represents the enveloping requirements for International's EDI program. This guide represents the enveloping standard before version 4010 and 4010 and beyond. Special notes point out where differences occur.

International Uses the following separators:
Segment Separator      Hex 1C  (Shown in examples as a ".")
Element Separator      Hex 5C  (Shown in examples as "*")
Sub-Element Separator  Hex 7A (Shown in examples as a ":")

# ISA  Interchange Control Header

| Pos: 010 | Max: 1 |
|---|---|
| Heading - Mandatory | |
| Loop: N/A | Elements: 16 |

**User Option (Usage):** Must use

To start and identify an interchange of zero or more functional groups and interchange-related control segments

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ISA01 | I01 | **Authorization Information Qualifier** | M | ID | 2/2 | Must use |

**Description:** Code to identify the type of information in the Authorization Information

**Code  Name**
00    No Authorization Information Present (No Meaningful Information in I02)

| ISA02 | I02 | **Authorization Information** | M | AN | 10/10 | Must use |

**Description:** Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)

**Trading Partner:** International will send spaces in this field.

| ISA03 | I03 | **Security Information Qualifier** | M | ID | 2/2 | Must use |

**Description:** Code to identify the type of information in the Security Information

**Code  Name**
00    No Security Information Present (No Meaningful Information in I04)

| ISA04 | I04 | **Security Information** | M | AN | 10/10 | Must use |

**Description:** This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)

**Trading Partner:** International will send spaces in this field.

| ISA05 | I05 | **Interchange ID Qualifier** | M | ID | 2/2 | Must use |

**Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

**Trading Partner:** When sending to International this would be your Trading Partner ISA Qualifier.

**International:** When sending to a Trading Partner, this is the ISA qualifier for International, which will be '01'

**Code  Name**
01    Duns (Dun & Bradstreet)
12    Phone (Telephone Companies)
14    Duns Plus Suffix
16    Duns Number With 4-Character Suffix
30    U.S. Federal Tax Identification Number
ZZ    Mutually Defined

| ISA06 | I06 | **Interchange Sender ID** | M | AN | 15/15 | Must use |

**Description:** Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element

**Trading Partner:** When sending to International this would be your ISA Trading Partner ID.

**International:** When sending to a Trading Partner, this is the ISA Trading Partner ID for International, which will be '781495650'.

| ISA07 | I05 | **Interchange ID Qualifier** | M | ID | 2/2 | Must use |

**Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

**Trading Partner:** When receiving from International this would be International's ISA Trading Partner Id qualifier, which is '01'.

**International:** When receiving from aTrading Partner,

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|----|--------------|-----|------|---------|-------|
| | | this is the ISA Trading Partner Id Qualifier for that Supplier. | | | | |
| | | **Code**   **Name** | | | | |
| | | 01      Duns (Dun & Bradstreet) | | | | |
| | | 12      Phone (Telephone Companies) | | | | |
| | | 14      Duns Plus Suffix | | | | |
| | | 16      Duns Number With 4-Character Suffix | | | | |
| | | 30      U.S. Federal Tax Identification Number | | | | |
| | | ZZ     Mutually Defined | | | | |
| ISA08 | I07 | **Interchange Receiver ID** | M | AN | 15/15 | Must use |
| | | **Description:** Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them | | | | |
| | | **Trading Partner:** When receiving from International this would be International's ISA Trading Partner Id, which is '781495650'. | | | | |
| | | **International:** When receiving from aTrading Partner, this is the ISA Trading Partner Id for that Supplier. | | | | |
| ISA09 | I08 | **Interchange Date** | M | DT | 6/6 | Must use |
| | | **Description:** Date of the interchange | | | | |
| ISA10 | I09 | **Interchange Time** | M | TM | 4/4 | Must use |
| | | **Description:** Time of the interchange | | | | |
| ISA11 | I10 | **Interchange Control Standards Identifier** | M | ID | 1/1 | Must use |
| | | **Description:** Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer | | | | |
| | | **Code**   **Name** | | | | |
| | | U      U.S. EDI Community of ASC X12,and UCS | | | | |
| ISA12 | I11 | **Interchange Control Version Number** | M | ID | 5/5 | Must use |
| | | **Description:** This version number covers the interchange control segments | | | | |
| | | **Code**    **Name** | | | | |
| | | 00200   Standard Issued as ANSI X12.5-1987 | | | | |
| ISA13 | I12 | **Interchange Control Number** | M | N0 | 9/9 | Must use |
| | | **Description:** A control number assigned by the interchange sender | | | | |
| ISA14 | I13 | **Acknowledgment Requested** | M | ID | 1/1 | Must use |
| | | **Description:** Code sent by the sender to request an interchange acknowledgment (TA1) | | | | |
| | | **Code**   **Name** | | | | |
| | | 0      No Acknowledgment Requested | | | | |
| ISA15 | I14 | **Usage Indicator** | M | ID | 1/1 | Must use |
| | | **Description:** Code to indicate whether data enclosed by this interchange envelope is test, production or information | | | | |
| | | **Code**   **Name** | | | | |
| | | P      Production Data | | | | |
| | | T      Test Data | | | | |
| ISA16 | I15 | **Component Element Separator** | M | | 1/1 | Must use |
| | | **Description:** Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator | | | | |
| | | **Trading Partner:** International uses the Hex 7A for the Sub-Element Delimiter. | | | | |

**Trading Partner:**

Examples:

Inbound before version 4010:

ISA*00*     *00*      *01*Trading Partner Id     *01*781495650       *000405*0616*U*00200*000960617*0*P*:.

Inbound version 4010 and later:

ISA*00*      *00*      *01*Trading Partner Id    *01*781495650     *000410*0502*U*00200*000016379*0*P*:.

Outbound before version 4010:
ISA*00*      *00*      *01*781495650     *01*Trading Partner Id    *000407*1931*U*00200*000001831*0*P*:.

Outbound  version 4010 and later:
ISA*00*      *00*      *01*781495650     *01*Trading Partner Id    *000407*2001*U*00200*000005473*0*P*:.

# GS Functional Group Header

| | |
|---|---|
| Pos: 020 | Max: 1 |
| Heading - Mandatory | |
| Loop: N/A | Elements: 8 |

**User Option (Usage):** Must use

To indicate the beginning of a functional group and to provide control information

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GS01 | 479 | **Functional Identifier Code** | M | ID | 2/2 | Must use |

**Description:** Code identifying a group of application related transaction sets

**Code Name**
AG Application Advice (824)
CA Purchase Order Change Acknowledgment/Request - Seller Initiated (865)
CI Consolidated Service Invoice/Statement (811)
FA Functional Acknowledgment (997)
FT File Transfer (996)
IN Invoice Information (810,819)
LB Lockbox (823)
PC Purchase Order Change Request - Buyer Initiated (860)
PO Purchase Order (850)
PR Purchase Order Acknowledgement (855)
PS Planning Schedule with Release Capability (830)
PT Product Transfer and Resale Report (867)
RA Payment Order/Remittance Advice (820)
RC Receiving Advice/Acceptance Certificate (861)
RS Order Status Information (869,870)
SH Ship Notice/Manifest (856)
SI Shipment Information (858)
SQ Production Sequence (866)
SS Shipping Schedule (862)
TD Trading Partner Profile (838)
TX Text Message (864)
WA Product Service Transaction Sets (140,142, 143)

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GS02 | 142 | **Application Sender's Code** | M | AN | 2/15 | Must use |

**Description:** Code identifying party sending transmission; codes agreed to by trading partners

**Trading Partner:** When sending to International this would be your GS level Trading Partner ID. This may or may not be the same as the ISA Trading Partner ID.

**International:** When sending to a Trading Partner, this is the GS Trading Partner ID for International, which will represent the specific International location sending the data. See ISA & GS Trading Partner ID's Used by International Truck and Engine Corp. for a complete list of GS Trading Partner IDs.

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GS03 | 124 | **Application Receiver's Code** | M | AN | 2/15 | Must use |

**Description:** Code identifying party receiving transmission. Codes agreed to by trading partners

**Trading Partner:** When receiving from International this would be your GS level Trading Partner ID. This may or may not be the same as the ISA Trading Partner ID.

**International:** When receiving from a Trading Partner, this is the GS Trading Partner ID for International, which will represent the specific International location to receive the data. See ISA & GS Trading Partner ID's Used by International Truck and Engine Corp for a complete list of GS Trading Partner IDs.

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GS04 | 373 | **Date** | M | DT | 8/8 | Must use |

**Description:** Date expressed as CCYYMMDD

**Trading Partner:** Special Note:
The date segment in versions of the ANSI X12 standards prior to version 4010 used a six position date. This was a Mandatory Min of 6 and Max of 6. Please refer to the examples below.

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|------|------|------|------|------|------|
| GS05 | 337 | **Time** | M | TM | 4/8 | Must use |

**Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|------|------|------|------|------|------|
| GS06 | 28 | **Group Control Number** | M | N0 | 1/9 | Must use |

**Description:** Assigned number originated and maintained by the sender

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|------|------|------|------|------|------|
| GS07 | 455 | **Responsible Agency Code** | M | ID | 1/2 | Must use |

**Description:** Code used in conjunction with Data Element 480 to identify the issuer of the standard

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|------|------|------|------|------|------|------|
| GS08 | 480 | **Version / Release / Industry Identifier Code** | M | AN | 1/12 | Must use |

**Description:** Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

| Code | Name |
|------|------|
| 002040 | Draft Standards Approved by ASC X12 Through May 1989 |
| 003010 | Draft Standards Approved By ASC X12 Through June 1990 |
| 003020 | Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1991 |
| 003040 | Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1993 |
| 003050 | Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1994 |
| 004010 | Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997 |
| 004020 | Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1998 |

## Trading Partner:

Example:
Inbound before version 4010:
GS*FA*Trading Partner Id*204063515*000405*0616*1*X*002040.

Inbound  version 4010 and later:
GS*FA*Trading Partner Id*161984646*20000410*0502*8309*X*004010.

Outbound before version 4010:
GS*TX*204063515*Trading Partner Id*000410*0233*47647*X*003050.

Outbound  version 4010 and later:
GS*SQ*161984646*Trading Partner Id*20000410*0301*328*X*004010.

# GE  Functional Group Trailer

**User Option (Usage):** Must use

To indicate the end of a functional group and to provide control information

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GE01 | 97 | **Number of Transaction Sets Included** | M | N0 | 1/6 | Must use |
| | | **Description:** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element | | | | |
| GE02 | 28 | **Group Control Number** | M | N0 | 1/9 | Must use |
| | | **Description:** Assigned number originated and maintained by the sender | | | | |

## Trading Partner:
Examples:
Inbound before version 4010:
GE*1*1.

Inbound  version 4010 and later:
GE*1*1.

Outbound before version 4010:
GE*1*1.

Outbound  version 4010 and later:
GE*1*1.

# IEA Interchange Control Trailer

| | |
|---|---|
| **Pos: 040** | **Max: 1** |
| **Heading - Mandatory** | |
| **Loop: N/A** | **Elements: 2** |

**User Option (Usage):** Must use

To define the end of an interchange of zero or more functional groups and interchange-related control segments

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| IEA01 | I16 | **Number of Included Functional Groups** | M | N0 | 1/5 | Must use |
| | | **Description:** A count of the number of functional groups included in an interchange | | | | |
| IEA02 | I12 | **Interchange Control Number** | M | N0 | 9/9 | Must use |
| | | **Description:** A control number assigned by the interchange sender | | | | |

## Trading Partner:
Examples:
Inbound before version 4010:
IEA*1*000960617.

Inbound  version 4010 and later:
IEA*1*000016379.

Outbound before version 4010:
IEA*1*000001831.

Outbound  version 4010 and later:
IEA*1*000005473.

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